

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 626.00

Revision Date: March 14, 2001

Section 1 — Chemical Product and Company Identification

Potassium Cyanide

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Section 2 — Composition, Information on Ingredients

Potassium Cyanide

CAS#: 151-50-8

Section 3 — Hazards Identification

White amorphous crystals or powder with faint odor of almonds.
Highly toxic. May be fatal. Irritating to body tissues. Avoid all body contact.
Any body contact can cause poisoning.
Contact with acid with release poisonous hydrogen cyanide gas.

FLINN AT-A-GLANCE

Health-3
Flammability-0
Reactivity-2
Exposure-3
Storage-3

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid.
Inhalation: Break amyl nitrite pearl in a cloth and hold to nose for 15 seconds. Repeat 5 times. Remove to fresh air at once.
If breathing has stopped give artificial respiration immediately.
Eye or External: Immediately flush with fresh water for 15 minutes.
Internal: Administer inhalation first aid measures first. After administering pearls, rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Non-flammable solid.
When heated to decomposition, emits toxic fumes of K₂O, CN, and NO_x.
Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive mode.

NFPA CODE

H-3
F-0
R-0

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Ventilate area and remove all sources of water. Sweep up, place in sealed bag or container and dispose. Wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Inorganic #7. Store with arsenates, cyanides and cyanates.
Store in a Flinn Chem-Saf bag and then locked up in a poisons cabinet.

Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.
Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).
Exposure guidelines: TWA 5 mg/m³ (CN) Ceiling: 5a mg/m³ (CN) (OSHA, NIOSH)

Section 9 — Physical and Chemical Properties

White amorphous crystals or powder with faint odor of almonds.
Solubility: Soluble in water, alcohol and glycerol.
Formula: KCN
Formula Weight: 65.12

Specific Gravity: 1.52
Melting Point: 634 C
Boiling Point: 1625 C

Section 10 — Stability and Reactivity

Avoid contact with strong oxidizers, acids, and acid salt. Contact with acids liberates toxic and flammable hydrogen cyanide.
Shelf life: Good, if stored safely.

Section 11 — Toxicological Information

Acute effects: Highly, irritant, nausea, dizziness, headache
Chronic effects: Lung irritation, cyanosis, CNS depression
Target organs: Central nervous system, blood, heart

ORL-RAT LD50: 5 mg/kg
IHL-RAT LC50: N.A.
SKN-RBT LD50: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

Section 12 — Ecological Information

Data not yet available.

Section 13 — Disposal Considerations

Please consult with state and local regulations.
Flinn Suggested Disposal Method #14 is one option.

Section 14 — Transport Information

Shipping Name: Potassium cyanide
Hazard Class: 6.1, Poison
UN Number: UN1680

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (205-792-3), RCRA code P098.

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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*Reduce Science Accidents--
Use Flinn Chemicals*

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